

RAW SEQUENCE LISTING

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Application Serial Number: 10/5/6, 779
Source: PCT
Date Processed by STIC: 12-17-04

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RAW SEQUENCE LISTING

DATE: 12/17/2004

PATENT APPLICATION: US/10/516,779

TIME: 14:52:05

Input Set : A:\332730.txt

Output Set: N:\CRF4\12172004\J516779.raw

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3 <110> APPLICANT: HER MAJESTY IN RIGHT OF CANADA AS REPRESENTED BY THE
4     MINISTER OF AGRICULTURE AND AGRI-FOOD CANADA
5     ROZWADOWSKI, Kevin L.
6     LYDIATE, Derek J.
8 <120> TITLE OF INVENTION: RETRONS FOR GENE TARGETING
10 <130> FILE REFERENCE: 4810-69922-01
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/516,779
C--> 13 <141> CURRENT FILING DATE: 2004-12-03
15 <150> PRIOR APPLICATION NUMBER: US 60/386,640
16 <151> PRIOR FILING DATE: 2002-06-05
18 <160> NUMBER OF SEQ ID NOS: 6
20 <170> SOFTWARE: PatentIn version 3.2
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 1023
25 <212> TYPE: DNA
26 <213> ORGANISM: Artificial Sequence
28 <220> FEATURE:
29 <223> OTHER INFORMATION: NLS-RT Sequence
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34 catgacatgt ctaaggcgac tcgcatatct gttgaaacac ttcggttggt aatctataca      180
35 gctgattttc gctataggat ctacactgta gaaaagaaaag gccagagaa gagaatgaga      240
36 accatttacc aaccttctcg agaacttaaa gccttacaag gatgggttct acgtaacatt      300
37 ttagataaac tgtcgtcatc tcctttttct attggatttg aaaagcacca atctattttg      360
38 aataatgcta ccccgcatat tggggcacaac tttatactga atattgattt ggaggatttt      420
39 ttcccaagtt taactgctaa caaagttttt ggagtgttcc attctcttgg ttataatcga      480
40 ctaatatctt cagttttgac aaaaatatgt tgttataaaa atctgctacc acaagggtgct      540
41 ccatcatcac cttaaattagc taatctaata tgttctaaac ttgattatcg tattcaggggt      600
42 tatgcaggta gtcggggctt gatataacg agatatgccg atgatctcac cttatctgca      660
43 cagtctatga aaaagggttg taaagcacgt gattttttat tttctataat cccaagtga      720
44 ggattggtta ttaactcaaa aaaaacttgt attagtgggc ctctagtgca gaggaaagtt      780
45 acaggtttag ttatttcaca agagaaagtt gggataggta gagaaaaata taaagaaatt      840
46 agagcaaaga tacatcatat attttgccgt aagtcttctg agatagaaca cgttagggga      900
47 tgggtgtcat ttattttaag tgtggattca aaaagccata ggagattaat aacttatatt      960
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49 cag                                                                                   1023
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53 <211> LENGTH: 1106
54 <212> TYPE: DNA
55 <213> ORGANISM: Artificial Sequence
57 <220> FEATURE:
58 <223> OTHER INFORMATION: Resynthesized Version of NLS-RT

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63	tctgctgagt	acctcaacac	cttcaggctc	aggaacctcg	gactccctgt	tatgaacaac	180
64	ctccacgata	tgtctaaggc	taccaggatc	tctgttgaga	ccctcaggct	cctcatctac	240
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67	atcctcgata	agctctcttc	ttctcctttc	tctatcggat	tcgagaagca	ccaatctatc	420
68	ctcaacaacg	ctacccctca	catcgagctc	aacttcatcc	tcaacatcga	tcttgaagat	480
69	ttcttccctt	ctctcaccgc	taacaagggt	ttcggagttt	tccactctct	cggatacaac	540
70	aggctcatct	cttctgttct	caccaagatc	tgctgctaca	agaacctcct	ccctcaagggt	600
71	gctccttctt	ctcctaagct	cgctaacctc	atctgctcta	agctcgatta	cagaattcaa	660
72	ggatacgctg	gatctagggg	actcatctac	accaggtagc	ctgatgatct	cacctctctt	720
73	gctcaatcta	tgaagaagg	tgtaaggctc	agggatttcc	tcttctctat	catcccttct	780
74	gagggactcg	ttatcaactc	taagaagacc	tgcatctctg	gacctagggt	tcaaagggaag	840
75	gttaccggac	tcgttatctc	tcaagagaag	gttggaatcg	gaagggagaa	gtacaaggag	900
76	atcagggcta	agatccacca	catcttctgc	ggaaagtctt	ctgagatcga	gcacgttagg	960
77	ggatggctct	ctttcatcct	ctctgttgat	tctaagtctc	acaggagggt	catcacctac	1020
78	atctctaagc	ttgaaaagaa	gtacgggaaag	aacctctca	acaaggctaa	gacctaatga	1080
79	gcggccgcac	tagtgatatc	tctaga				1106

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83 <211> LENGTH: 237

84 <212> TYPE: DNA

85 <213> ORGANISM: Artificial Sequence

87 <220> FEATURE:

88 <223> OTHER INFORMATION: STEM3 Sequence

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92	aacctctgga	tggtgtttcg	gcatactgca	ttgaatctga	gttactgtct	gttttccttg	120
93	ttggaacgga	gagcatcgtc	tagacaacga	tatctgatgc	tctccgagcc	aaccaggaaa	180
94	cccgtttttt	ctgacgtaag	ggtgcgcagc	cgctgttggc	gtggccaatg	cggccgc	237

97 <210> SEQ ID NO: 4

98 <211> LENGTH: 268

99 <212> TYPE: DNA

100 <213> ORGANISM: Artificial Sequence

102 <220> FEATURE:

103 <223> OTHER INFORMATION: STOP-stem Sequence

105 <400> SEQUENCE: 4

106	ggatcccccg	ggcgccagca	gtggctgcgc	acccttagcg	agaggtttat	cattaagggtc	60
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108	ttggaacgga	gagcatcgtc	tagaggatcc	gggtcgctcg	ctgcgtcgct	gcggaattcg	180
109	atatctgatg	ctctccgagc	caaccaggaa	accggttttt	tctgacgtaa	gggtgcgcag	240
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113 <210> SEQ ID NO: 5

114 <211> LENGTH: 221

115 <212> TYPE: DNA

116 <213> ORGANISM: Artificial Sequence

118 <220> FEATURE:

119 <223> OTHER INFORMATION: 3'-recruitment Sequence

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124 cattaaggtc aacctctgga tgttgtttcg gcatcctgca ttgaatctga gttactgtct      180
125 gttttccttg ttggaacgga gagcatcgcg gccgcctgca g                                221
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129 <211> LENGTH: 54
130 <212> TYPE: DNA
131 <213> ORGANISM: Artificial Sequence
133 <220> FEATURE:
134 <223> OTHER INFORMATION: Cloned NLS Sequence
136 <400> SEQUENCE: 6
137 ggatccaaaa aaatggctcc taagaagaag agaaagggtg gaggaggacc cggg          54
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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/516,779

DATE: 12/17/2004

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Input Set : A:\332730.txt

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L:12 M:270 C: Current Application Number differs, Replaced Current Application Number
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date